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NEW TURBINES, LUMBERING MACHINERY UNDER CONSTRUCTION

INSTITUTE DEVELOPS NEW TURBINE MACHINERY -- Borba, No 115, 16 May 49

On 14 May the Federal Institute for Turbine Machinery of the Yugoslav Ministry of Heavy Industry was formally opened in Ljublijana. The Institute actually was founded about the middle of 1948. Last week construction began on a building for the Institute.

Since its founding, the Institute has produced prototypes of the Kaplan and Francis turbines now being made at the "Litostroj" plant. The Institute is now working on the plans for a station for testing the cavitation of turbines, to be made in Yugoslavia by the end of 1949.

The laboratory of the Institute will test the prototype of a pump for irrigating rice fields, to be produced serially at "Litostroj." The laboratory also will design and test a model of the prototype of a pump for irrigation and drainage, and an apparatus for testing the susceptibility to corrosion of materials from which rotor blades, water turbines, and pumps are made. The Institute will standardize the manufacture of all pumps made in Yugoslavia.

The prototype of a machine for the hydraulic transport of earth and sand has been made in the workshop of the Institute. This machine will contribute toward the mechanization of the earthwork in the New Belgrade construction project, the Danube-Tisa-Danube Canal, and the drainage of Lake Skadar. A pneumatic conveyor to carry coal dust and similar material by air pressure is also being made there.

Machinery, apparatus, and measuring instruments are also being made at the Institute, to be installed in the new building of the Institute this year. As such machinery always had to be imported in the past, their manufacture in Yugoslavia will mean the saving of millions of dinars of foreign exchange.

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NEW LUMBERING MACHINERY UNDER CONSTRUCTION - Vjesnik, No 1261, 22 May 49

The construction of the first Yugoslav horizontal frame saws and circular aerial conveyors operated by electricity or engines has been started in the Main Republic Machine Shop for Forest Economy in Belisce, Croatia, where they were designed.

The new saws will be used at first in lumber camps in Gorski Kotar to saw logs that are too large to be transported to the electric saws at the sawmill.

Especially designed for Yugoslav conditions, the saws are equipped with guides which cut even the thickest trunks accurately. This cannot be done with imported horizontal frame saws.

The first five Yugoslav horizontal frame saws are already in production.

The circular conveyors, operated by electricity or engines, will carry logs from the lumber camp to the loading station 30 times faster than before and will reduce the need for draft animals. The conveyor is set up in the lumber camp in a circle 4 kilometers in diameter. A steel cable and chains wrapped around the logs are used to transport them even over terrain where draft animals cannot be used. These conveyors can be moved from one lumber camp to another in a very short time. The first tests have shown good results.

Five cable conveyors are to be built by 1 July and 13 more by the end of the year.

A new crane for loading logs into ships, also being built at the same shop, will be finished by the end of May. The crane will be electrically operated and will have a capacity of 12 carloads. Each crane will reduce manpower requirements by 12 men both for loading and unloading.

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